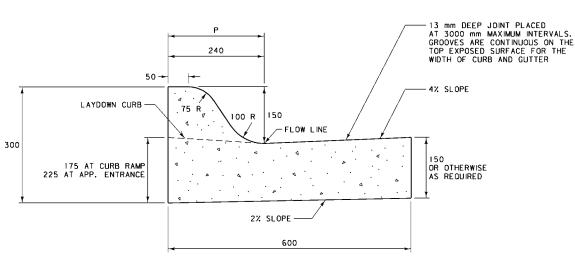


### CONCRETE CURBS



P = AREA TO BE PAINTED. WHEN PAINTED CURB IS REQUIRED

# CURB & GUTTER SECTION O. 110 m³ CONC. PER METER OF CURB FOR 150 mm GUTTER. \*

### JOINTS:

(A) WHEN INTEGRAL WITH, TIED TO, OR PLACED AGAINST PORTLAND CEMENT CONCRETE PAVEMENT (P.C.C.P.): MATCH TRANSVERSE CONTRACTION AND/OR EXPANSION JOINTS IN THE ADJACENT P.C.C.P. SLAB. IF REQUIRED, EXTEND 13 mm MIN. WIDTH PREFORMED EXPANSION JOINTS COMPLETELY THROUGH CURB AND GUTTER THE SAME WIDTH AS THE P.C.C.P. SLAB JOINT. FILL CURB AND GUTTER EXPANSION JOINTS WITH PREFORMED EXPANSION JOINT FILLER.

(B) ALL OTHER CASES: SPACE CONTRACTION JOINTS IN CURB AND GUTTER AT 3000 mm INTERVALS EXCEPT AS SPECIFIED IN (A) ABOVE. EXTEND 13 mm MIN. WIDTH EXPANSION JOINTS COMPLETELY THROUGH CURB AND GUTTER AT 30 m MAXIMUM INTERVALS AND FILL WITH PREFORMED EXPANSION JOINT FILLER.

(C) CONTRACTION JOINTS:
CONTRACTION JOINTS ARE 3 mm MIN. AND 10 mm MAX. IN
WIDTH. FORM JOINTS BY SAWING OR SCORING TO A MINIMUM
DEPTH OF 25 mm. FORM SCORED JOINTS BY A TOOL WHICH WILL LEAVE ROUNDED CORNERS AND DESTROY AGGREGATE INTERLOCK TO A MINIMUM DEPTH OF 25 mm.

(D) OTHER JOINTS:
SEPARATE THE CURB AND GUTTER FROM ADJACENT SIDEWALK
AT POINTS SHOWN ON DTL. DWG. NO. 608-05 BY 13 mm
MIN. WIDTH OF PREFORMED EXPANSION JOINT MATERIAL.
PLACE PREFORMED EXPANSION JOINT MATERIAL AT ALL CURB
RETURNS, BRIDGES, DROP INLETS, AND WHERE MEETING CURB
AND CUITTED IN PLACE.

(E) USE PREFORMED EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STD. SPEC. 707.

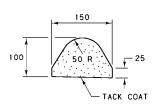
MINIMUM CURB RETURN RADII = 3050 mm. 4575 mm RADII ARE DESIRABLE FOR STREETS.

## CONCRETE:

UNLESS OTHERWISE SPECIFIED, CONSTRUCT CONCRETE CURBS AND CONCRETE INTEGRAL CURB AND GUTTER WITH CLASS "D" CONCRETE OR APPROVED EQUAL.

\* QUANTITIES FOR ESTIMATING PURPOSES ONLY.

## **BITUMINOUS CURBS**



CURB SECTION 1 m3 OF MATERIAL WILL MAKE ABOUT 89 METERS OF CURB. \*

# 150 100 TACK COAT

CURB SECTION 1 m3 OF MATERIAL WILL MAKE ABOUT 64 METERS OF CURB. \*

# NOTES:

WHEN CURB IS USED IN CONJUNCTION WITH GUARDRAIL, USE THE 100 mm TYPE. OTHERWISE, THE CONTRACTOR MAY USE EITHER SECTION.

CONFORM ALL MATERIALS AND CONSTRUCTION TO THE STANDARD

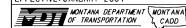
CONCRETE MAY BE SUBSTITUTED FOR THE BITUMINOUS MATERIAL. WHEN CONCRETE IS USED, CONSTRUCT CURB IN ACCORDANCE WITH STANDARD SPECIFICATION 609.

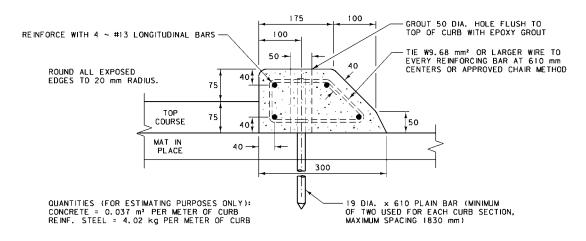
GRAVEL BASE IS INCLUDED IN THE SURFACING SECTION.

DETAILED DRAWING REFERENCE STANDARD SPEC. DWG. NO. 609-05 SECTION 609

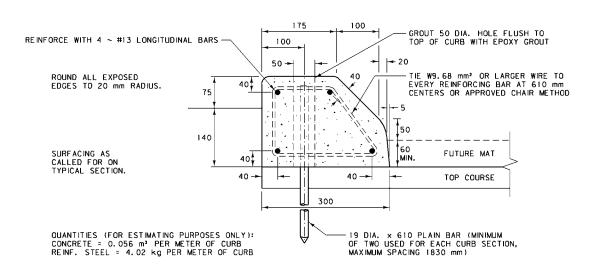
MISCELLANEOUS CURBS

ALL DIMENSIONS ARE MILLIMETERS EFFECTIVE: JANUARY 2004 (mm) UNLESS OTHERWISE NOTED.





# TYPE "A" - MAT IN PLACE



TYPE "B" - FUTURE MAT

CURBS MAY BE CONSTRUCTED USING ANY OF THE FOLLOWING THREE METHODS: (1) PRECAST

(2) CAST IN PLACE

(3) CONSTRUCTED BY THE USE OF AN APPROVED CURB FORMING OR SLIP FORM MACHINE.

WHEN USING EITHER METHOD (2) OR (3), REINFORCING STEEL IS NOT REQUIRED, WITH THE EXCEPTION OF THE PINS, AND THE CURBS ARE SCORED OR SAWN TO A DEPTH OF 13 mm TO FORM CONTRACTION JOINTS AT INTERVALS OF 3000 mm OR LESS. EXTEND 13 mm MIN. WIDTH EXPANSION JOINTS COMPLETELY THROUGH CURB AT 30 m MAXIMUM INTERVALS AND FILL WITH PREFORMED EXPANSION JOINT FILLER.

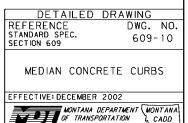
FORM PRECAST CURBS IN THEIR INVERTED POSITION, IN LENGTHS NOT LESS THAN 1220 mm, OR MORE THAN 3050 mm.

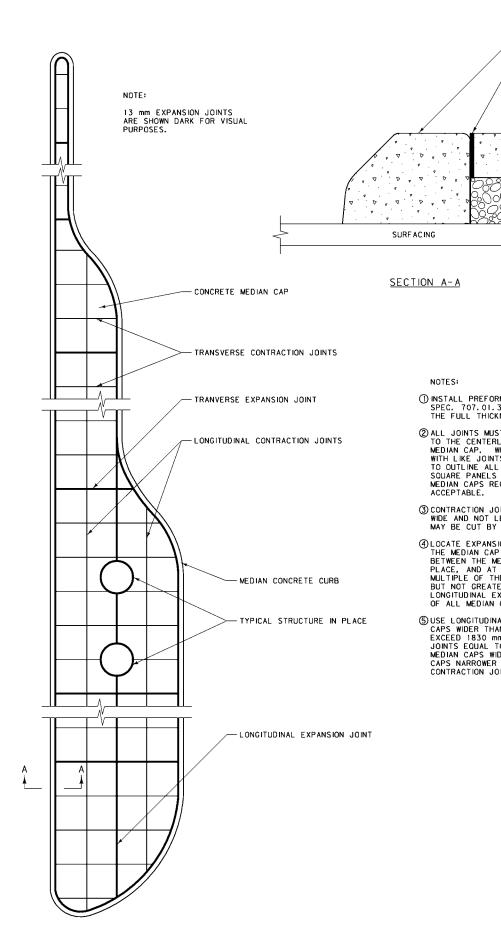
### MATERIAL:

CONSTRUCT CURBS OF CLASS "D" CONCRETE, OR AN APPROVED EQUIVALENT MIX.

EPOXY BINDER FOR GROUTING MUST MEET THE REQUIREMENTS OF AASHTO M 235

### ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.





① INSTALL PREFORMED EXPANSION JOINT FILLER, STD. SPEC. 707.01.3, AT ALL EXPANSION JOINTS, FOR THE FULL THICKNESS OF THE CONCRETE MEDIAN CAP.

MEDIAN CONCRETE CURB SEE DTL. DWG. NO. 609-10

GRAVEL

(VARIES)

EXPANSION JOINT FILLER

- CONCRETE MEDIAN CAP

- ② ALL JOINTS MUST BE STRAIGHT AND PERPENDICULAR DALL JUINIS MUSI BE STRAIGHT AND PERPENDICULAR TO THE CENTERLINE AND THE SURFACE OF THE MEDIAN CAP. WHERE PRACTICAL, ALIGN ALL JOINTS WITH LIKE JOINTS IN ADJOINING WORK. USE JOINTS TO OUTLINE ALL PANELS IN THE MEDIAN CAP. USE SOUARE PANELS WHEN PRACTICAL. ON NARROW MEDIAN CAPS RECTANGULAR SHAPED PANELS ARE ACCEPTABLE
- ③ CONTRACTION JOINTS MAY NOT BE MORE THAN 3 mm WIDE AND NOT LESS THAN 25 mm IN DEPTH AND MAY BE CUT BY A GROOVE FORMING TOOL.
- (4) LOCATE EXPANSION JOINTS AT ALL JOINTS BETWEEN THE MEDIAN CAP AND MEDIAN CURB, AT ALL JOINTS BETWEEN THE MEDIAN CAP AND STRUCTURES IN PLACE, AND AT INTERVALS EQUAL TO THE NEAREST MULTIPLE OF THE CONTRACTION JOINT INTERVAL, BUT NOT GREATER THAN 18.3 METERS. USE A LONGITUDINAL EXPANSION JOINT IN THE CENTERLINE OF ALL MEDIAN CAPS WIDER THAN 3660 mm.
- (5) USE LONGITUDINAL CONTRACTION JOINTS IN MEDIAN CAPS WIDER THAN 1830 mm, WITH SPACING NOT TO EXCEED 1830 mm. SPACE TRANSVERSE CONTRACTION JOINTS EQUAL TO THE LONGITUDINAL SPACING ON MEDIAN CAPS WIDER THAN 1830 mm. FOR MEDIAN CAPS NARROWER THAN 1830 mm, SPACE TRANSVERSE CONTRACTION JOINTS 3000 mm OR LESS.

ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

DETAILED DRAWING REFERENCE DWG. NO. 609-12 SECTION 609

> CONCRETE MEDIAN CAPS

EFFECTIVE: DECEMBER 2002



